

228-557

1/15/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Nufarm Americas, Inc.
11901 S. Austin Avenue
Alsip, IL 60803

Subject: Amended label adding pollinator protection language
Product Name: Atera GC 2+1 SC Insecticide
EPA Reg. No. 228-557
EPA Decision No. 483885
Submission dated August 19, 2013

JAN 15 2014

Dear Ms. Tackema:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. See 40 CFR 156.10(a)(6).

Under 40 CFR 152.130(d), EPA may establish dates by which all product distributed or sold by the registrant must bear revised labeling. The following paragraphs set forth the schedule for ensuring that that your product bears revised labeling within a reasonable time period.

- Any product released for shipment after 2/28/14 must bear the new label.

If these conditions are not complied with, EPA will take appropriate action against this registration. If you have any questions please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Regards,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle, Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

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RESTRICTED USE PESTICIDE
Toxic to Fish and Aquatic Organisms
For retail sale to and use only by certified applicators, or persons under direct supervision, and only for those uses covered by the certified applicator's certification.

ATERA™ GC

2+1 SC

INSECTICIDE

FOR FOLIAR AND SYSTEMIC CONTROL OF INSECT PESTS OF TURFGRASS, LANDSCAPE ORNAMENTALS, SHRUBS AND TREES IN LAWNS, LANDSCAPES, PLAYGROUNDS, PARKS, ATHLETIC FIELDS, GOLF COURSES AND SOD FARMS.

DO NOT USE THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU COUNTY OR SUFFOLK COUNTY, NEW YORK

ACTIVE INGREDIENTS:	
Imidacloprid	21.29%
Bifenthrin*	10.64%
OTHER INGREDIENTS:	68.07%
TOTAL:	100.00%

*Cis isomers 97% minimum, trans isomers 3% maximum
Contains 2 pounds of imidacloprid and 1 pound of bifenthrin per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION - PRECAUCION
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)
[SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS]

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

EPA REG. NO. 228-557
EPA EST. NO.

MANUFACTURED BY
NUFARM AMERICAS INC.
11901 SOUTH AUSTIN AVENUE
ALSIP, IL 60803



For Medical Emergencies Only, Call (877) 325-1840

NOTE: Spanish language is optional

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000228-00557.20140114.AMEND

ACCEPTED
JAN 15 2014
Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:
EPA. Reg. No: 228-557

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION - PRECAUCION**

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes and gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agriculture pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS	
Users Should:	<ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing immediately if pesticide gets inside. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything to an unconscious person.

HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1 -(877)-325-1 840 for emergency medical treatment information.	

NOTE TO PHYSICIAN	
No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and should be avoided.	

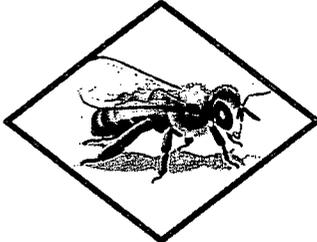
ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. **DO NOT** apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging the treatment area.

PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR

THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- o Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- o Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- o Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- o Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at:

beekill@epa.gov

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

See individual crops/use sites for specific pollinator protection application restrictions. If none exist under the specific crop/use sites, for foliar applications, follow these directions for use for crops that are food/feed and commercially grown ornamentals that are attraction to pollinators and for non-agricultural use sites:

1. FOR FOOD CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS



Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.



2. NON-AGRICULTURAL USE SITES:

Do not apply this product while bees are foraging. Do not apply this product to plants that are flowering. Only apply after all flower petals have fallen off

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not water the treated area to the point of run-off. Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage into sewers, storm drains, water bodies, or aquatic habitat can occur. **DO NOT** allow the product to enter any drain during or after application.

Note to Reviewer: the two statements in brackets below may be used as they relate to *Tilia* species:

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.]

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species.]

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes and socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

INFORMATION

This product controls or suppresses a wide spectrum of insects and mites on turfgrass, trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants at and/or around residential dwellings (single and multi-family), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports, cemeteries, lawns, golf courses, sod farms, and interior landscapes. (Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.) This product mixes readily with water and other aqueous carriers.

Some insects can develop resistance to products used repeatedly for their control. Because the development of resistance by an insect to an insecticide cannot be predicted, Use this product according to established resistance management strategies. Consult your local or state pest management authorities for details.

If necessary, consult resources in horticulture in your area (such as your Cooperative Extension Service) to determine appropriate application timing and cultural practices to control different types of pests.

APPLICATION FOR TURF PESTS

Use this product for the control of a wide range of listed pests of turfgrass. Because this product's active ingredients have long lasting residual activity, for control of subsurface feeders apply before the occurrence of egg laying activity. This product's active ingredients also have sufficient knockdown and residual activity to provide curative and residual control of surface feeding pests.

Do not apply more than 1.6 pints (0.40 lb imidacloprid, 0.20 lb bifenthrin) per acre per application or 0.60 fluid ounce per 1,000 square feet per application of product to turf. Do not apply more than 2.0 pints (0.50 lb of imidacloprid active ingredient, 0.25 lb bifenthrin) per acre per year or 0.70 fluid ounce per 1,000 square feet of product to turf per year.

Applications Sites

Permitted sites are: lawns, grounds and landscapes at and/or around residential dwellings (single and multifamily), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports, golf courses, sod farms and cemeteries. New York State only: Do not apply solutions containing this product to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch). Do not use this product on golf courses and sod farms in Nassau County or Suffolk County in New York State. Arizona State only: Do not use this product on sod farms in the state of Arizona.

Application Timing

The active ingredients in this product have sufficiently long-lasting residual activity that allows applications to be made prior to egg laying by the target pest(s). Optimum control of turf pests will be achieved when application is made prior to egg hatch followed by sufficient irrigation of rainfall to move the active ingredient through thatch and down into the underlying soil. Time applications based on past experiences at the site or in the area, current results of adult monitoring/trapping or other methods.

Post Application Watering and Mowing

Control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

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Application Restrictions for Turf Pests

- Keep children and pets off treated areas until spray has dried.
- Do not apply to turf that is frozen, waterlogged or is saturated with water. Turf in this condition will not allow the necessary vertical distribution of the active ingredient down into the soil.
- Do not apply more than 2.0 pints (0.50 lb of imidacloprid active ingredient, 0.25 lb bifenthrin) per acre per year.
- Do not mow turf or lawn area until sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.
- Do not allow this product to contact plants in bloom while bees are foraging the treatment area.
- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not allow runoff or puddling of irrigation water following application.
- Keep children and pets off treated area until dry.

Application Preparations

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture, that has not been tested before, prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

Because certain cultivars are sensitive to the final spray solution, test the effects of applications of different rates and volumes of mixed solution on a small patch of a type of grass (with observations over one week to detect the occurrence of negative effects) before application of solutions to large areas of that type of grass.

Applications Equipment and Methods

Apply this product mixed in water (according to the table below) as a spray of uniform, coarse droplets at a pressure low enough to eliminate drift from the target area. Use properly calibrated application equipment to apply this product. Check calibration periodically to ensure that equipment is working properly.

Reapplication

Reapply in the event of high pest pressure. Reapply in the event of high pest pressure not to exceed more than 2.0 pints (0.50 lb of imidacloprid active ingredient, 0.25 lb bifenthrin) per acre per year or 0.70 fluid ounce per 1,000 square feet of product per year to turf.

New York State only: Do make a single reapplication of this product if there is renewed insect activity, but not sooner than two weeks after first application.

Turf Pests Application Use Rates

Use rates for this product for turf pests are stated in fluid ounces of this product per 1,000 square feet and pints per acre. Do not apply more than 1.6 pints (0.40 lb imidacloprid, 0.20 lb bifenthrin) per acre per year or 0.60 fluid ounce per 1,000 square feet per application of product to turf. The application use rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.15 to 0.60 fluid ounce per 1,000 square feet or 0.40 to 1.60 pints per acre, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher specified application rates when maximum residual control is needed.

Turf Pests Groups by Use Rates

Use Rate Ranges for the following Turf Pests Group		
0.46 - 0.60 fluid ounces of this product per 1,000 square feet or 1.25-1.60 pints of this product per acre.		
Annual bluegrass weevil, <i>Aphodius spp.</i> Asiatic garden beetle Black turfgrass ataenius Black vine weevil European chafer	European crane fly Fruit fly Green June beetle Imported Fire Ants ¹ Japanese beetle	Northern masked chafer Nuisance ants Oriental beetle, <i>Phyllophaga spp.</i> Southern masked chafer Ticks
¹ Application rate for Imported Fire Ants is 0.6 fl. oz.		

Use Rate Ranges for the following Turf Pests Group		
0.15-0.60 fluid ounce of this product per 1,000 square feet or 0.40-1.60 pints of this product per acre.		
Annual bluegrass weevil, <i>Aphodius spp.</i> Armyworms Banks grass mites Billbugs Centipedes Crickets	Cutworms Earwigs Fleas Grasshoppers Leafhoppers Mealybugs	Millipedes Mites Pillbugs Sod webworms Sowbugs

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

Application Directions Against Specific Turf Pests

Annual Bluegrass Weevil (*Hyperodes*) adults: Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your Cooperative Extension Service for more specific information regarding application timing.

Annual Bluegrass Weevil (*Listronotus maculicollis*) larvae: For best results, applications should be made at the first sign of wilting of bluegrass. For the first generation, this wilting often occurs after full bloom of flowering dogwood (*Cornus florida*).

Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. Use the highest specified application rate during periods of highest pest pressure if the grass is being maintained at a mowing height of 1 inch or greater.

Billbug adults: Apply when adults first appear in the spring or when chewed or brown grass indicates damage. Degree day models have been developed to optimize application timing. Consult your Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

Mites: To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher specified volume application when treating these areas to ensure penetration of the insecticide into the soil.

Imported Fire Ants: Combine broadcast treatments to control newly invading ants and mound treatments to eliminate existing ant colonies. If the soil is not moist, irrigate before application or use a high volume application. Apply broadcast treatments at 0.60 fluid ounce per 1,000 square feet. Treat mounds by diluting 0.10 fluid ounce (2/3 teaspoon) of this product per gallon of water and applying 1 to 2 gallons of finished spray per mound. Treat mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. Treat a four foot diameter circle around the mound. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours. Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.

Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever): Treat the entire area where exposure to ticks occurs. Avoid spot applications. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat, if necessary, to achieve and/or maintain control during periods of high pest pressure not to exceed 2.0 pints per year. Repeat application is necessary only if there are signs of renewed activity. Limit repeat application to no more than once per seven days.

Deer ticks (*Ixodes sp.*) have a complicated two year life cycle that involves four life stages. Apply in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply from mid-spring to early fall to control their larvae, nymphs and adults.

Turf Application Volumes

Apply the indicated amount of this product mixed in a volume of water sufficient to adequately distribute the active ingredient to the target area(s) and to wet all foliage.

Apply the calculated amount of this product in any volume of water provided the maximum label rate is not exceeded. Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

Calculating Amounts to Mix for Turf Pests

To mix and apply any amount of this product for turf pests based on a number of square feet, determine:

A = # of Square feet of area to be treated / 1,000 (for example 5,000 sq. ft. / 1,000 = 5.0)

B = Applicable Use Rate of this product (fluid ounces per 1,000 square feet) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Ounces of this product to use = A X B

Mix this amount of this product in the amount of water needed to make the application.

To mix and apply any amount of this product for turf pests based on number of acres, determine:

A = # of acres of areas to be treated = square feet of area to be treated / 43,560 (1 acre = 43,560 sq. ft.)

B = Applicable Use Rate of this product (pints per acre) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Pints of this product to use = A X B

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Mix this amount of this product in the amount of water needed to make the application.

1 Pint = 16 ounces.

FOLIAR AND BROADCAST APPLICATION FOR ORNAMENTAL PESTS

This product applied to foliage and broadcast on the soil, controls or suppresses a wide range of pests (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior landscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.)

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combine this product with a nitrogen containing fertilizer to accelerate or otherwise enhance the uptake of the active ingredient into the plant. Delay translocation of soil directed applications to woody stemmed plants by 60 days or less. For this reason, apply prior to anticipated pest infestation to achieve optimum levels of control. Foliar applications of this product also have local systemic activity against insect pests.

For outdoor ornamentals do not exceed a total of 2.0 pints (0.50 lb of imidacloprid and 0.25 lb of bifenthrin) per acre per year.

Application Restrictions for Foliar and Broadcast Application for Ornamental Pests

Follow application restrictions for Non-Agricultural Uses on page [x] to protect bees and other insect pollinators

DO NOT apply more than 2.0 pints per acre per year.

Keep children and pets off treated area until dry.

Note to Reviewer: the two statements in brackets below may be used as they relate to *Tilia* species:

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.]

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species.]

Application Sites

For use on ornamental plants including: trees (non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior landscapes.

Application Preparation

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Any tank mixture that has not been tested before should be tested before full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

FOLIAR APPLICATION

Ornamental Application to Control Ants

Use this product to indirectly control ants when applied to control aphids, scale insects, mealybugs and other sucking insects on ornamentals thereby limiting the amount of honeydew available.

Foliar Application Volumes and Application Methods

This product mixes readily with water and can be used in many types of application equipment. Mix required amount of product (from the table below) with the amount of water required to uniformly wet foliage and apply as directed dependent upon the selected use pattern. Add a spreader/sticker when making foliar applications on hard to wet foliage such as holly, pine, or ivy. If concentrate or mist type spray equipment is used, use an equivalent amount of product on the area sprayed, as would be used in a dilute application. Begin treatments prior to establishment of high pest populations. Reapply as needed not to exceed a total of 2.0 pints per acre per year.

Foliar Application Use Rates

Use rates for this product for foliar application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 100 gallons of water. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 2.4 to 7.7 fluid ounces per 100 gallons, depending on the target pests. Use rates for specific pests within this range are given below. Use the higher specified application rates when maximum residual control is needed. However, applications of up to 7.7 fluid ounces per 100 gallons are permitted at the discretion of the applicator to control any pest.

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Use Rate Ranges for the following Ornamental Pests Group by Foliar Application		
7.7 fluid ounces of this product per 100 gallons of water or 225 ml of this product per 100 gallons of water.		
Ants Beet Armyworm Black vine weevil adult Broad mites Budworms Scale crawlers Citrus thrips Clover mites Diaprepes (adults)	European red mites Flea beetles Fungus gnats (adults) Grasshoppers Leaf rollers Mites Mosquitos Orchid weevil Pine needle scales (crawlers)	Plant bugs San Jose scale (crawlers) Spider Mites Thrips Tip moths Twig borers Wasps

Use Rate Ranges for the following Ornamental Pests Group by Foliar Application		
3.8-7.7 fluid ounces of this product per 100 gallons of water or 112.5- 225 ml of this product per 100 gallons of water.		
Bagworms Cutworms	Fall webworms Gypsy moth caterpillars	Leaf feeding caterpillars Tent caterpillars

Use Rate Ranges for the following Ornamental Pests Group by Foliar Application		
2.4 -7.7 fluid ounces of this product per 100 gallons of water or 72 -225 ml of this product per 100 gallons of water.		
Adelgids Aphids Japanese beetles Lace bugs Leafbeetles (including elm and viburnum leaf	beetles) Leafhoppers (including glassy-winged sharpshooter) Mealybugs Psyllids	Sawfly larvae Thrips (suppression) Treehoppers White flies

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

BROADCAST APPLICATION

Broadcast Application Volumes and Application Methods

Mix required amount of product in a quantity of water sufficient to uniformly treat area. Use a minimum of 2 gallons of water per 1,000 square feet. To achieve optimum control, irrigate treated area in order to incorporate treatment into upper level of soil.

Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

For outdoor ornamentals, do not exceed a total of 2.0 pints (0.50 lb of imidacloprid and 0.25 lb of bifenthrin) per acre per year or 0.70 fluid ounces per 1,000 square feet per year.

Broadcast Application Use Rates

Use rates for this product for broadcast application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 1,000 square feet. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.15 to 0.60 fluid ounces per 1,000 square feet, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher specified application rates when maximum residual control is needed.

Use Rate Ranges for the following Ornamental Pests Group by Broadcast Application		
0.46-0.60 fluid ounces of this product per 1,000 square feet or 14- 18 ml of this product per 1,000 square feet.		
White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga spp., Asiatic garden beetle, Oriental beetle)	Imported Fire Ants	Nuisance Ants

Use Rate Ranges for the following Ornamental Pests Group by Broadcast Application		
0.15-0.30 fluid ounce of this product per 1,000 square feet or 4.30-9.40 ml of this product per 1,000 square feet.		
Centipedes Crickets Earwigs	Pillbugs Sowbugs Armyworms	Cutworms Sod webworms

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

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SOIL INJECTION AND SOIL DRENCH FOR ORNAMENTAL PESTS

This product, applied as a soil drench or soil injection, controls or suppresses a wide range of insects on trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers and interior plantscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.)

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combining this product with a nitrogen containing fertilizer will accelerate or otherwise enhance the uptake of the active ingredient into the plant. Delay translocation of soil drench applications to woody stemmed plants by 60 days or less. For this reason, apply prior to anticipated pest infestation to achieve control.

Applications to trees for the control of existing borer infestations may not prevent the eventual loss of the tree due to existing damage already caused by the pest and stress to the tree caused by the pest infestation.

Application Restrictions for Soil Injection and Soil Drench for Ornamental Pests

- Do not apply more than 2.0 pints per acre per year.
- Keep children and pets off treated area until dry.
- Do not apply to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply this product, by any application method, to linden, basswood, or other Tilia species.

Application Sites

For use on ornamental plants: trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior plantscapes.

Application Preparation

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

Ornamental Pests Controlled by Soil Injection or Drench Application		
Adelgids	Lace bugs	Psyllids
Aphids	Leaf beetles (including elm and viburnum leaf beetles)	Royal palm bugs
Armored scales (suppression)	Leafhoppers (including glassy-winged sharpshooter)	Sawfly larvae
Black vine weevil larvae	Leafminers	Soft scales
Eucalyptus longhorned borer	Mealybugs	Thrips (suppression)
Flatheaded borers (including bronze birch borer and alder borer)	Pine tip moth larvae	White grub larvae
Japanese beetles		Whiteflies

SOIL INJECTION FOR TREES

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Soil Injection Use Rate for Trees
0.16 to 0.32 fluid ounce per inch of trunk diameter (D. B. H.) / 5 to 10 milliliters per inch of trunk diameter (D. B. H.)

Soil Injection Volumes and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply at a low pressure according to one of the two following methods. Make a minimum of 4 injection holes per tree. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

Grid Injection: Evenly space holes on 2.5 foot centers in a grid pattern in the soil beneath the tree's branches/foliage out to the tree's drip line.

Basal Injection: Evenly space injection holes around the base of the tree no more than 12 inches out from the tree.

Circle System: Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line.

SOIL DRENCH FOR TREES

Soil Drench Use Rate for Trees
0.16 to 0.32 fluid ounce per inch of trunk diameter (D. B. H.) / 5 to 10 milliliters per inch of trunk diameter (D. B. H.)

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Soil Drench Volume and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed. Apply solution at a rate of no less than 10 gallons per 1,000 square feet around the base of the tree directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

SOIL INJECTION FOR SHRUBS

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Soil Injection Use Rate for Shrubs
0.16 to 0.32 fluid ounce per foot of shrub height / 5 to 10 milliliters per foot of shrub height

Soil Injection Volume and Application Method for Shrubs

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply to individual plants using dosage indicated at a low pressure, making a minimum of 4 injection holes per shrub. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

SOIL DRENCH FOR SHRUBS

Soil Drench Use Rate for Shrubs
0.16 to 0.32 fluid ounce per foot of shrub height / 5 to 10 milliliters per foot of shrub height

Soil Drench Volumes and Application Method for Shrubs

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed, but at a rate no less than 10 gallons per 1,000 square feet around the base of each shrub directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

Soil Incorporation for Flowers and Groundcovers

Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established prior to bloom or after all the petals have fallen off. If application is made to established plants, optimum control will be attained if area is irrigated thoroughly after application.

Soil Incorporation Use Rate for Flowers and Groundcovers
0.46 to 0.60 fluid ounces per 1,000 square feet / 14 to 18 milliliters per 1,000 square feet

Application Restrictions for Soil Injection and Soil Drench

Do not graze treated areas or use clippings from treated areas for feed or forage.

Avoid runoff or puddling of irrigation water following application.

Do not apply by air.

Do not apply by any type of irrigation system.

Do not apply more than 2.0 pints per acre per year.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below.

Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 1-800-424-9300.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

[Nonrefillable Containers 5 Gallons or Less:]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.

[Nonrefillable containers larger than 5 Gallons:]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

[Refillable containers]

CONTAINER HANDLING [DISPOSAL]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable For return to Nufarm:]

CONTAINER HANDLING [DISPOSAL]: Refillable Container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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